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VESSEL PROSTHESIS FOR HUMANS OR ANIMALS USES CONNECTOR AT MAIN BODY SLEEVE END AS FLAT AND EXPANDED SLEEVE JOINED BY TRANSITION SURFACE AND PRESSED TO VESSEL AT CONNECTOR BY FLEXIBLE ENCIRCLING BAND.

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PATENT FAMILY

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Abstract: DE 10104806 A

NOVELTY - The connector (16) consists of a sleeve (20) expanded outside (24) seen from its outer end (22) and adjoined by a cylindrical sector (26) via a radially circumferential transition surface (28) to allow the sleeve (20) to narrow down to the outside diameter of the cylindrical sector (26). The transition surface can be straight, concave or convex and slopes slightly radially inwards towards the outer end of the sleeve, giving a surface height of 2-3 mm. The first sleeve sector (24) is truncatedly conical coming to a point at the outer end of the sleeve (20). Thus the free end in the sector (24) is the same or smaller than the outside diameter of the sleeve sector (26). The main body sleeve (12) of the prosthesis is in two parts fixed to respective ends (14,36) of the sleeve (20,38). The vessel is pressed to the connector (16) by a flexible band (40).

USE - Medical and veterinary practice, e.g. aorta prostheses.

ADVANTAGE - The prosthesis is easily handled and inserted and stands up to blood pulsations for sustained service.

DESCRIPTION OF DRAWING(S) - The drawing shows the implanted prosthesis in longitudinal section.

prosthesis 10
main sleeve body 12
sleeve end 14
connector 16
vessel 18
connector sleeve 20
sleeve end 22
sleeve sectors 24,26
transition surface 28
surface end 30
end sleeves 14,38
flexible band. 40

Title Terms: VESSEL; PROSTHESIS; HUMAN; ANIMAL; CONNECT; MAIN; BODY; SLEEVE; END;
FLAT; EXPAND; SLEEVE; JOIN; TRANSITION; SURFACE; PRESS; VESSEL; CONNECT; FLEXIBLE;
ENCIRCLING; BAND

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